



COAL - CLEAN, EFFICIENT, & RELIABLE ENERGY  
*Incorporating*

9th APEC Coal Flow Seminar  
and  
10th APEC Clean Fossil Energy Technical Seminar

Dujiangyan City, Sichuan Province, P.R. China

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Monday, 18 November to Wednesday, 20 November, 2002

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ORGANIZED UNDER THE DIRECTION OF THE  
APEC EXPERT GROUP ON CLEAN FOSSIL ENERGY (EGCFE)  
PROJECT STEERING COMMITTEE

**AUSTRALIA:** Department of Industry, Tourism and Resources (ITR)

**CANADA:** Department of Natural Resources (NRCan)

**JAPAN:** Ministry of Economy, Trade and Industry (METI)

**KOREA:** Korea Institute of Energy Research (KIER)

**PR CHINA:** State Power Corporation of China (SPC)  
China National Coal Association (CNNA)

**USA:** Department of Energy (DOE)

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**SPONSORED BY:**

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**JAPAN:** New Energy and Industrial Technology Development Organization (NEDO)  
The Japanese Committee for Pacific Coal Flow (JAPAC)

**PR CHINA:** State Power Corporation (SPC)

**USA:** Department of Energy (DOE)

Monday, 18 November 2002

8:00 Registration

9:00 JOINT OPENING SEMINAR

Chair: Mr. Scott Smouse

Chair, EGCFE

Senior Mgt. & Technical Advisor for International

Department of Energy

National Energy Technology Laboratory

USA

9:10 OFFICIAL WELCOME BY:

"Welcome from Local People"

TBD

Sichuan Province Representative

9:20 JOINT PLENARY SESSION

**OUTLOOK FOR THE COAL AND ELECTRICITY INDUSTRIES IN APEC ECONOMIES**

*Chair: Mr. Scott Smouse*

*Chair, EGCFE*

- 1 "Outlook for Energy Planning in China"  
TBD  
SDPC  
P.R. China
- 2 "Outlook for Electricity in China"  
Mr. Zhao Xizheng  
Vice President  
State Power Corporation of China  
P.R. China
- 3 "Outlook for Coal in China"  
Professor Zhu Deren  
Vice Chairman  
China National Coal Association  
P.R. China

10:35-10:50 Break

- 4 TBD  
Mr. Akira Yasui  
Deputy Director, Coal Division  
Natural Resources and Fuel Division  
Agency for Natural Resources and Energy  
Ministry of Economy, Trade & Industry  
Japan
- 5 TBD  
Mr. Robin Bryant  
General Manager, Energy Minerals Branch  
Australian Coal Association  
Australia

6 TBD  
Mr. Taufik Sastrawinata  
Head, Service and Information Division  
Energy Technology Laboratory (LSDE)  
Agency for the Assessment and Application of Technology (BPPT)  
Indonesia

12:05 Lunch

## 13:30 SESSION 1

### *SEMINAR 1: COAL FLOW COAL DEMAND IN APEC ECONOMIES*

*Chair: Mr. Robin Bryant  
General Manager, Energy Minerals Branch  
Australian Coal Association  
Australia*

#### 1 "China's Coal Exports: Implications for Asia Pacific Markets"

Ms. Karen Schneider  
Chief Economist  
Energy and Mineral Economics  
Australian Bureau of  
Agricultural and Resource Economics  
(ABARE)  
Australia

#### 2 "Impact of Coal Quality on Coal Supply and Demand in Japan"

Mr. Katsuyoshi Ando  
President  
Japan Coal Energy Center  
Japan

#### 3 "Coal Demand Outlook in Korea"

Mr. Chul-Gyu Kim  
Manager  
Fuel Team  
Contract Management Dept.  
Korea South-East Power Co., Ltd.  
Korea

#### 4 "Coal Demand in P.R. China: An Increasing Trend"

Mr. Bai Ran  
Director General  
International Cooperation Department  
China National Coal Association (CNNA)  
P.R. China

### *SEMINAR 2: CLEAN FOSSIL ENERGY PRESENT SITUATION AND TREND OF CCT RD&D IN APEC ECONOMIES*

*Chair: TBD*

#### 1 "Present Situation and Trend of CCT RD&D in P.R. China"

Professor Zhang Xiaolu  
Director General  
Department of Science & Technology and  
Environmental Protection  
State Power Corporation of China  
P.R. China

#### 2 "Present Situation and Trend of CCT RD&D in USA"

Mr. Scott Smouse  
Chair, EGCFE  
Senior Mgt. & Tech. Advisor for International  
Department of Energy  
National Energy Technology Laboratory  
USA

#### 3 "Present Situation and Trend of CCT RD&D in Japan"

Mr. Koji Sumigama  
Director  
Energy Environment Technology Dept.  
New Energy and Industrial Technology  
Development Organization (NEDO)  
Japan

#### 4 "Present Situation and Trend of CCT RD&D in Australia"

Mr. Harry Zevon  
Assistant Director  
Coal Industry Section, ITR  
Australia

15:30 Break

## 15:35 SESSION 2

### SEMINAR 1: COAL FLOW COAL INDUSTRY RESTRUCTURING & GLOBALIZATION

*Chair: Mr. Taufik Sastrawinata  
Head, Service and Information Division  
Energy Technology Laboratory (LSDE)  
Agency for the Assessment and Application of  
Technology (BPPT)  
Indonesia*

#### 1 "The Australian Coal Industry: Five Years of Change, and the Road Ahead"

Mr. Bill Simes  
Associate Director  
Barlow Jonker Pty Ltd.  
Australia

#### 2 "Indonesian Coal Development and Related Issues"

Mr. Suwandi Suyartono  
Director, Mineral and Coal Technique  
Directorate General of Geology and Mineral  
Resources  
Ministry of Energy and Mineral Resources  
Indonesia

#### 3 "China Coal Industry Restructuring and Globalization"

Dr. Pan Weier  
(TBD)  
Economic Operation Center  
Energy Research Institute  
State Development Planning Commission  
P.R. China

### SEMINAR 2: CLEAN FOSSIL ENERGY ADVANCED PF TECHNOLOGIES

*Chair: Mr. Xu Shisen  
Senior Engineer  
Thermal Power Research Institute  
P.R. China*

#### 1 "Low NO<sub>x</sub> Technologies for Utility Boilers"

Mr. Wang Chunchang  
Director  
Department of Boiler Combustion  
Thermal Power Research Institute  
State Power Corporation of China  
P.R. China

#### 2 "B&W Supercritical Boiler Technology Update"

Mr. Donald L. Wietzke  
Director, Engineering- Asia Region  
Babcock & Wilcox Company  
USA  
Chief Engineer, Babcock & Wilcox Beijing  
Co., Ltd.

#### 3 "Supercritical Pressure Coal-Fired Boiler "

Mr. Hideki Yamanouchi  
Manager  
Project Development  
International Marketing & Sales Operations  
Babcock-Hitachi K.K.  
Japan

17:30 Day 1 Adjourns

18:00 Welcome Reception

Hosted by P.R. China

Tuesday, 19 November 2002

8:00 Registration

9:00 Joint Opening Session

Chair: Mr. Scott Smouse

Chair, EGCFE

Opening Remarks

Mr. Nagayasu Taniguchi

Executive Director

NEDO, Japan

9:05 Keynote Address

Non-Power Uses of Coal in China

TBD

P.R. China

9:30 Break

## 9:35 SESSION 3

### SEMINAR 1: CLEAN FOSSIL ENERGY NEW COAL PREPARATION TECHNOLOGIES

*Chair: Professor Zhao Yuemin  
Vice President  
University of Mining Technology  
P.R. China*

#### 1 "New Coal Preparation Technology in China"

Ms. Wu Lixin  
Senior Engineer  
Directorate of Mineral and Coal Suppliers  
Clean Coal and Research Center of Coal  
Industry  
P.R. China

#### 2 "Coal Preparation for the Chinese Market"

Mr. Mark Sharpe  
Vice President  
Project Development  
CLI Corporation  
USA

#### 3 "Advanced Coal Preparation Technology for the Jinjia Coal Mine"

Mr. Hajime Endo  
General Manager  
Engineering Dept.  
Japan Coal Energy Center (JCOAL)  
Japan

### SEMINAR 2: CLEAN FOSSIL ENERGY NEW POWER GENERATION TECHNOLOGIES

*Chair: Mr. Akira Yasui  
Deputy Director, Coal Division  
Natural Resources and Fuel Division  
Agency for Natural Resources and Energy  
Ministry of Economy, Trade & Industry  
Japan*

#### 1 "Application and Development of Plasma Ignition Technology for Pulverized Coal Boiler in Power Plant"

Mr. Wang Ai-Sheng  
Chief Engineer  
Yantai Longyuan Power Technology Co. Ltd.  
P.R. China

#### 2 "ChevronTexaco's IGCC Technology"

Mr. Francis Fong  
Director, Business Organization  
Worldwide Power & Gasification  
ChevronTexaco  
USA

#### 3 "Current Situation of A-PFBC Technology Development"

Mr. Hiroyuki Nakata  
Deputy Director  
Wakamatsu Research Institute  
Technology Development Center  
Electric Power Development Company Ltd.  
Japan

11:05 Break

## 11:20 SESSION 4

### SEMINAR 1: CLEAN FOSSIL ENERGY COAL CONVERSION TECHNOLOGIES

*Chair: Dr. Du Minghua  
Director*

*Beijing Research Institute of Coal Chemistry  
P.R. China*

### SEMINAR 2: CLEAN FOSSIL ENERGY ENVIRONMENTAL CONTROL TECHNOLOGIES

*Chair: Dr. Sung Chul Shin  
Senior Advisor*

*Korea Institute of Energy Research  
Korea*

#### 1 "Coal Liquefaction Technologies of Shuang Ya Shan Project"

Mr. Li Kejian  
Deputy Director  
Liquefaction Department  
China Coal Research Institute  
P.R. China

#### 1 "AOD Ammonia Delivery System for SO<sub>2</sub> Control"

Mr. Liqian Wang  
Chief Engineer  
Enelco Environmental Technology Co.  
Ltd./Environmental Elements Corporation  
USA

#### 2 "Application of HTI Coal Conversion Technologies in China"

Dr. Theo Lee  
President  
and  
Dr. Peizheng Zhou  
Senior Technology Manager  
Hydrocarbon Technologies Inc.  
USA

#### 2 "Electron Beam Flue Gas Treatment System"

Mr. Shi Jing Ke  
Manager  
EBA Division, Project Engineering Dept. 1  
Environmental Engineering Group  
EBARA Corporation  
Japan

#### 3 "Application System of Coal Gasification Technology"

Mr. Tetsuo Shikata  
Executive Chief Engineer  
Energy Systems Division  
Babcock-Hitachi K.K.  
Japan

#### 3 "The Status of PM 10 and PM 2.5 Emission of Utility Boilers in China"

Mr. Yao Qiang  
Professor  
Qing Hua University  
P.R. China

12:50 Lunch



## 14:20 SESSION 5

### SEMINAR 1: COAL FLOW HARMONIZING COAL USAGE AND THE ENVIRONMENT

*Chair: Mr. Nguyen Kinh Luan  
Acting Director of Science and Technology  
Product Quality Department  
Ministry of Industry  
Vietnam*

### SEMINAR 2: CLEAN FOSSIL ENERGY TECHNOLOGIES FOR GHG REDUCTION

*Chair: Dr. Frank Mourits  
Manager  
Climate Change Technologies Initiative  
Natural Resources Canada  
Canada*

#### 1 "Climate Change: Implications for APEC

Coal Markets"

Mr. Yuzuru Nonaka

Director

Climate Change

Corporate Planning & Administration Dept.

Electric Power Development Co., Ltd. (EPDC)

Japan

#### 2 "Coal and the Environment in Thailand"

Mr. Wattanapong Kurovat

Policy and Planning Analyst

Energy Policy and Planning Office

Ministry of Energy

Thailand

#### 3 "The Need for Fuel Balance in the Electricity

Mix in the Philippines"

Ms. Ma Laura Saguin

Officer in Charge

Conventional Energy Division

Department of Energy

The Philippines

#### 1 TBD

#### 2 "Improved Plant Performance and Reduced CO<sub>2</sub> Emissions through State-of-the-Art

Condensor Cleaning"

Mr. Jerry Krynicki

International Account Executive

Conco Systems, Inc.

USA

#### 3 "Development and Application of Flue Gas Carbon Dioxide Recovery Technology"

Mr. Nobuo Imai

Project Manager

Engineering and Construction Center

Environmental Project Department

Mitsubishi Heavy Industry Ltd. (MHI)

Japan

15:50 Break

## 16:05 JOINT PANEL DISCUSSION

### COAL'S FUTURE IN THE APEC REGION: CHALLENGES AND SOLUTIONS COAL FLOW AND CLEAN FOSSIL ENERGY

*Chair: Ir. Dr. Datuk Mohd Annas Hj Mohd Nor*

*Chairman  
Energy Commission  
Malaysia*

#### Panelists

1 TBD

Chinese Taipei

2 Mr. Hajime Endo

General Manager

Engineering Dept.

Japan Coal Energy Center (JCOAL)

Japan

3 Ms. Yu Zhufeng

Executive Director

Clean Coal Engineering and Research Center of Coal Industry

P.R. China

4 Mr. Suwandi Suyartono

Director of Mineral and Coal Technique

Directorate General of Geology and Mineral Resources

Ministry of Energy and Mineral Resources

Indonesia

5 Mr. Robin Bryant

General Manager, Energy Minerals Branch, ACA

Australian Coal Association

Australia

#### 18:05 Joint Seminar Closing Remarks

Chair: Mr. Scott Smouse

Chair, EGCFE

#### 18:15 Break

#### 19:05 Reception

*Hosted by Japan*

Wednesday, 20 November 2002

8:00 – 17:00

### Dujiangyan City and Neijiang Power Plant Tour

Dujiangyan City is located on the Chengdu Plain in Sichuan Province. In November 2000, the UNESCO's World Heritage Committee placed Dujiangyan Irrigation System on its World Heritage List. Construction of the irrigation system, which is located west of the Dujiangyan City, began in 256 BC during the Qin Dynasty under the leadership of Li Bing, Governor of Shu (Sichuan) Province, and still controls the waters of the Minjiang River and distributes it to the fertile farmland of the Chengdu plains. Nearby Mount Qincheng was the birthplace of Taoism, which is celebrated in a series of ancient temples. A tour of Dujiangyan City will be provided including several of the main scenic spots.

A tour of the Neijiang Gaoba Power Station operated by the Sichuan Electric Power Company in Neijiang will be also be provided after the Joint Seminar. This 100-MWe circulating fluidized bed (CFB) boiler was designed and erected by Foster Wheeler Corporation (USA) and is considered a key demonstration project by the Chinese State government. The 100-MWe unit was placed into commercial operation during the summer of 1996 and represents the state-of-the-art CFB in China.